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DESCRIPTORS: \*Butanes, Dehydrogenation, Reaction  
kinetics, \*Butenes, Production, Aluminum compounds,  
Oxides, Chromium, Catalysts, Catalysis.

Buylene inhibits the reaction of butane dehydrogenation  
on chromia-alumina catalyst, in the interval of  
460-500 C and of partial pressures of the butane  
0.1-1 atm. The kinetics of the dehydrogenation re-  
action is described by the equation  $w = kc_1/c_2^{0.5}$ .

The apparent activation energy is  $40,000 \pm 1,000$   
cal/mole. (Author)  
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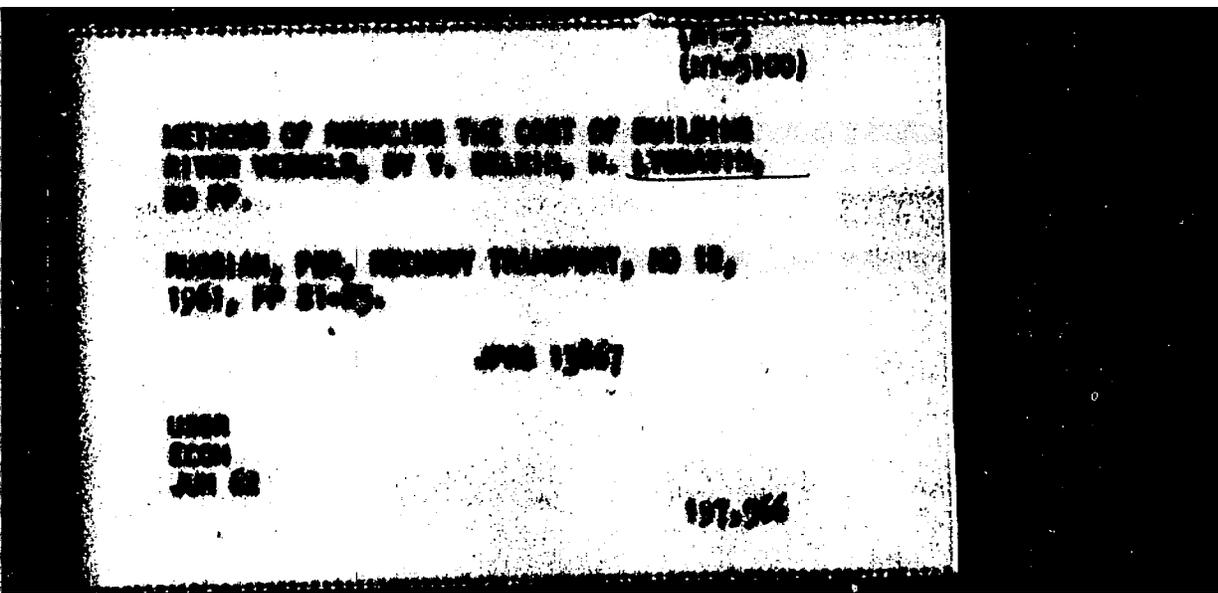
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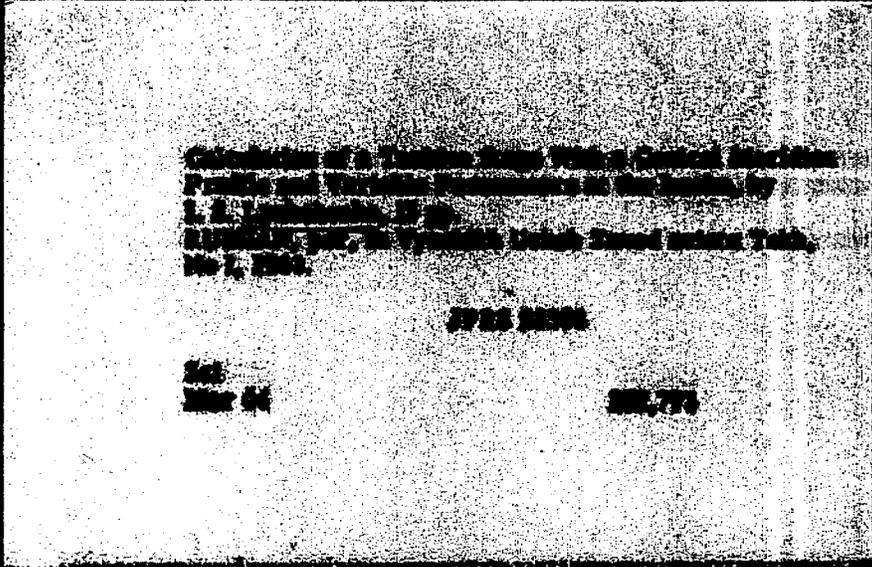
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